

## **OBSERVABILITY OF PARAMAGNETIC ACOUSTIC RESONANCE IN LIQUID CRYSTALS.**

Kochelaev B., Khasanov B.

*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

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### **Abstract**

The observability of paramagnetic acoustic resonance in liquid crystals was studied. The resonance change in the penetration depth of an ultrasonic shear wave in a nematic liquid crystal, and the ultrasound resonance absorption coefficient in a smectic A liquid crystal, were calculated in the hydrodynamic approximation. The conditions for observability of the effect were determined.

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